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**Structure of chloroplasts.**—The examination of living and fixed chloroplasts of Chlorophytum and Selaginella convinces PRIESTLY and IRVING<sup>33</sup> that the chlorophyll occupies the peripheral layer, 1–3  $\mu$  thick, where it is held in the meshes of a network. The observations of TIMIRIAZEFF and NÄGELI on the splitting of the chloroplast when placed in a solution of low osmotic pressure are confirmed.—C. R. B.

**Zymase from Aspergillus.**—JUNITZKY<sup>34</sup> finds that the aerobically cultivated mycelium of *Aspergillus* always contains some zymase. He regards this result as favoring rather than as opposing the theory of the genetic connection of alcohol-fermentation with aerobic respiration.—RAYMOND H. POND.

**Carex in N. W. America.**—HOLM<sup>35</sup> has published an account of the genus *Carex* in northwestern America, the topics being (1) a synopsis of the species, (2) types characteristic of northwest America, and (3) the geographical distribution of the Carices of northwest America.—J. M. C.

**Rate and period of growth of Polyporus.**—EDGERTON<sup>36</sup> has found that the growth of *Polyporus lucidus* is exogenous and averages about 0.5<sup>cm</sup> a day for the growing-period; and that the change in the development from stalk to pileus is a gradual process.—J. M. C.

**Julianaceae.**—The full paper dealing with this interesting new family of Mexican plants has now appeared.<sup>37</sup> The preliminary abstract for presentation before the Royal Society was noticed in this journal.<sup>38</sup>—J. M. C.

**Aerenchyma.**—WITTE<sup>39</sup> describes and figures the aerenchyma in *Lysimachia vulgaris* produced in stems in water, and records the production of this tissue in seven species of the Swedish flora.—C. R. B.

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<sup>33</sup> PRIESTLY, J. H., and IRVING, ANNIE A. The structure of the chloroplast considered in relation to its function. *Annals of Botany* 21:407–413. *figs.* 2. 1907.

<sup>34</sup> JUNITZKY, N., Ueber Zymase aus *Aspergillus niger*. *Ber. Deutsch. Bot. Gesells.* 25:210–212. 1907.

<sup>35</sup> HOLM, THEO., The genus *Carex* in northwest America. *Beih. Bot. Centralbl.* 22:1–29. 1907.

<sup>36</sup> EDGERTON, C. W., The rate and period of growth of *Polyporus lucidus*. *Torreyana* 7:89–97. 1907.

<sup>37</sup> HEMSLEY, W. BOTTING, On the Julianaceae: a new natural order of plants. *Phil. Trans. Roy. Soc. London B* 199:169–197. *pls.* 18–24. *figs.* 23. 1907.

<sup>38</sup> *BOT. GAZETTE* 42:236. 1906.

<sup>39</sup> WITTE, HERNFRID, Ueber das Vorkommen eines aërenchymatischen Gewebes bei *Lysimachia vulgaris* L. *Bot. Studier tillägnade F. J. KJELLMAN* 265–274. *figs.* 10. Upsala. 1906.